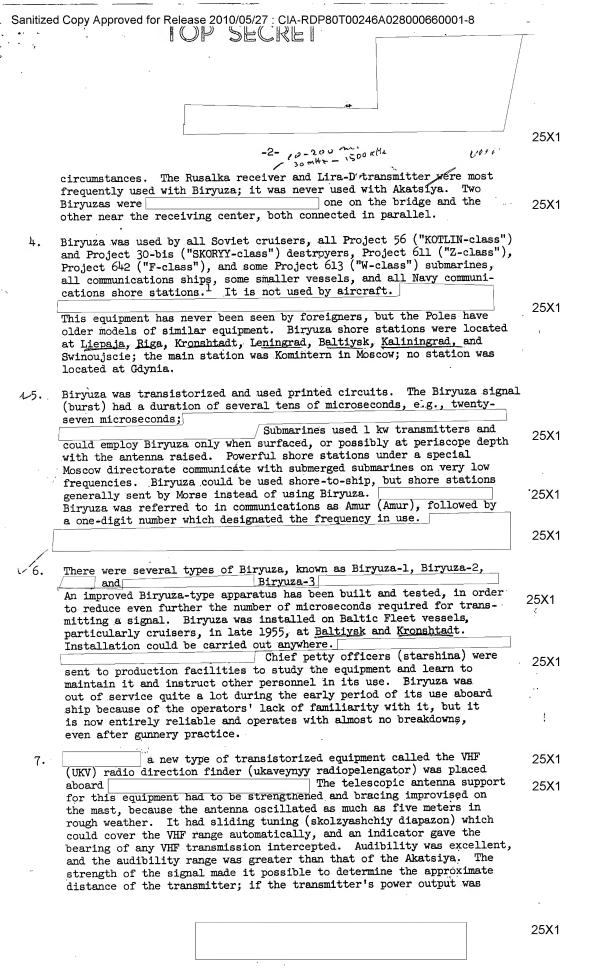
SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.  1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacia) VHF radiotelephone., a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptum (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve	
IN TAR ISC NO.  The material consists information affecting the National Defendence in third States within the material or the Engionage Laws. Title to the U.S.C. Sec. 700 and 700, the transmission of mensional Equipment of an unauthorised person is prohibited by law.  BULLETIN NO.  BULLETIN NO.  BULLETIN NO.  BULLETIN NO.  BULLETIN NO.  REPORT  REPORT  REPORT  REPORT  REPORT  REPORT  And Other Soviet Naval Vessels  REFERENCES  RD  REFERENCES  RD  REFERENCES  RD  REFERENCES  RD  SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONIENT IS TENTATIVE.  2.  1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacais) VIIF radiotelephone), a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchholengis which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIP-boyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; tha Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift sutomatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D. (Lyre-D.); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. one of the ship's three Akatsiya VIF rediotelephones was also located in the transmitting center, as was a reserve with two receivers and as witchhoord to all points. This was a loudspeaker	;
BULLETIN NO.	1
INTRY USSR REPORT    Communications Procedures and Equipment on a Soviet   Destroyer and Other Soviet Naval Vessels   No. PAGES   4   25.	
DITITY USSR  REPORT  DECT Communications Procedures and Equipment DATE DISTR. 14 October 1959 on a Soviet Destroyer and Other Soviet Naval Vessels NO. PAGES 4  REFERENCES RD  25  1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatelya (Acacis) VHF radiotelephones, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short-wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIP-boyevyy informationnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatslya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. Ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	- \ / 4
DECT Communications Procedures and Equipment DATE DISTR. 14 October 1959 on a Soviet Destroyer and Other Soviet Naval Vessels NO. PAGES 4  REFERENCES RD  E OF D. SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.  1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three kimel (Hops) receivers, and Akatsiya (Acacia) WHF radiotelephone., a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short-wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less must not three microvolts and cost 1,600,000 rubles; that Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatslya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. Ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	)X1
on a Soviet	
on a Soviet	į
1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacia) WHF radiotelephone: a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short-wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIP-boyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; tha Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF rediotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	5X1
1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacia) VHF radiotelephone, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIP-boyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; than Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	:
SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.  1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacia) VHF radiotelephone; a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; tha Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver.  Ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacia) WHF radiotelephone, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short-wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; tha Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver	5X1
1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacia) WHF radiotelephone:, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short-wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIP-boyevyy informationnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	-
1. The radio receiving center of the Project 30-bis ("SKORYY-class") destroyer contained one Rusalka (Mermaid) receiver, three Khmel (Hops) receivers, an Akatsiya (Acacia) WHF radiotelephones, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. Ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	25X1
contained one Rusalka (Mermaid) receiver, three Khmel  (Hops) receivers, an Akatsiya (Acacia) VHF radiotelephone, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of not less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver.  ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
contained one Rusalka (Mermaid) receiver, three Khmel  (Hops) receivers, an Akatsiya (Acacia) VHF radiotelephone, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of not less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver.  ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
contained one Rusalka (Mermaid) receiver, three Khmel  (Hops) receivers, an Akatsiya (Acacia) VHF radiotelephone, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of not less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver.  ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
contained one Rusalka (Mermaid) receiver, three Khmel  (Hops) receivers, an Akatsiya (Acacia) VHF radiotelephone, a small reserve all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of not less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver.  ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
all-wave transmitter called Uran (Uranium), which was used primarily for short wave, and switchboards which permitted connecting the receivers and transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of hot less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver.  ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	5X1
transmitters with other posts, such as the bridge and combat information point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of not less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
point (BIPboyevyy informatsionnyy punkt). The entire receiving center radio complex was referred to as "R-609". Rusalka had a sensitivity of not less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	,
hot less than two to three microvolts and cost 1,600,000 rubles; the Khmel was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	;
was a more common type of receiver which cost only several thousand rubles. Rusalka operated in the 10 - 200 meter band, for Morse and voice reception. It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
It can shift automatically to any of twelve frequency ranges and automatically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for Diskretnik (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
matically tune to the best signal. It was the largest receiver aboard  approximately 70 by 70 centimeters. There were several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for <u>Diskretnik</u> (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	j
several versions of Rusalka.  2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for <u>Diskretnik</u> (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	1
2. The transmitting center had two transmitters, a 1.2-kw Neptun (Neptune) and a 250-watt Lira-D (Lyre-D); "D" stands for <u>Diskretnik</u> (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radiotelephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	25X
a 250-watt Lira-D (Lyre-D); "D" stands for <u>Diskretnik</u> (discrete). Crystals could be used with the Lira-D. One of the ship's three Akatsiya VHF radio-telephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	
could be used with the Lira-D. One of the ship's three Akatsiya VHF radio- telephones was also located in the transmitting center, as was a reserve all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	-
all-wave receiver. ship also had a radio relay shack equipped with two receivers and a switchboard to all points. This was a loudspeaker	-
with two receivers and a switchboard to all points. This was a loudspeaker	.! 25X
system used for propaganda and cultural purposes.	23 <b>/</b>
	· ·
the most important item of communications equipment	do :
was a rapid-communication apparatus (apparatura bystro-deystvuyushchey svyazi) called Biryuza (Turquoise). This was not a	25X1
transmitter or receiver, but could be used with any medium or high frequency	!
receiver or transmitter to send any type of message under almost any	
CHANGE YO	:
SECRET S	i
per rèchading	2
BULLETIN NO. 27-2	
	25¦X
E X ARMY X NAVY X AIR X FBI AEC NSA EV. X	
: Washington distribution indicated by "X"; Field distribution by "#".)	1
FORMATION REPORT INFORMATION REPORT	
LADO HOU AC RECORD	
Return to Archives & Records Center TOTAL UP 4 PAGES	
Return to Archives & Records Center TOTAL UP 4 PAGES  Immediately After Upon COPY // OF COPIES	
1	
	25X

Sanitized Copy Approved for Release 2010/05/27 : CIA-RDP80T00246A028000660001-8



TOP SECRET

• , , , .		25X
	-3-	
8.	known, the distance could be determined fairly precisely. This equipment was developed for I the Army, but the tests were so successful that the Navy decided to order such equipment. The transmissions of Soviet ships were monitored during the tests.  The installation and testing of this direction-finder were performed by a group of specialists from a Ministry of Defense communications institute in Leningrad. This institute had Army, Air Force, and Navy departments, and worked on both civil and military electronic equipment. The group from the institute consisted of eight persons, including a colonel and lieutenant colonel, and was headed by Engineer Captain First Rank Dyachenko.	25X
	Captain First Rank Dyachenko.	25X
9.	Cruisers had a top secret decimetric radiotelephone called Shlyupka (Boat) which could be used for secure conversations in the clear with any point in the USSR. It transmitted on a very narrow beam with a range of eight to ten nautical miles from ship to shore and then	
	followed regular telephone lines. It could be used with the VCh (vysokaya chastota) secure radiotelephone net, and was like that net, not like Akatsiya, since Akatsiya was a circular transmission which could be heard all around. Shlyupka came into service in the last two years; it could not be used ship-to-ship, but only by preararangement with a shore station which was at a precisely known geographical point. Audibility on Shlyupka was excellent, perhaps a little harsh, but it was not necessary to talk loud when using it.	
	A normal dial telephone was used with it. Cruisers also carried permanently installed intercept and direction-finding equipment, and intelligence officers occasionally placed such equipment on other vessels. The cruiser SVERDLOV had new cipher equipment which was installed for ship-to-shore and shore-to-ship communications; the cruiser ORDZHONIKIDZE was also to get this equipment, which might be used with Biryuza. Destroyers and submarines did not have cipher machines, only cruisers and Fleet Headquarters, but there was talk of placing such machines of a smaller size aboard one or two ships of a destroyer brigade, such as the flagship and second ship.	25>
10.	Three watches were Morse watch, radiotelephone watch, and Biryuza watch. If Biryuza was out of order, telegraph was used, then radiotelephone. The control point was the radio shack, where the watch was set, and the radioman served as a check on the watch officer or communications officer. A recorder such as was used with sonar was used to record everything that came in, and it could also be used to transmit. Transmitters always worked at minimum power, and all radios were turned off when in port.	25X
11.	The only persons permitted in the radio rooms were the captain, senior assistant to the captain, the radio officer, the watch officer, and radiomen. Only the captain and cipher clerk entered the cipher shack. The cipher clerk was a chief petty officer (starshina); prior to 1950 officers acted as cipher clerks. Messages were released by the captain or radio officer. When the captain wished to send a message he called the cipher clerk, who would bring him the message forms. The captain wrote the message and ordered it to be enciphered. When it was enciphered the clerk called to ask permission to send it. The captain	

anitized	Copy Approved for Release 2010/05/27 : CIA-RDP80T00246A028000660001-8	
_		25X
	-4-	
	could also leave instructions with an officer on the bridge that the message be sent as soon as it was enciphered, or might in unusual circumstances tell the clerk to send the message as soon as it was enciphered, without calling the captain for permission. If a message were for Moscow it would be sent to the nearest shore station and relayed from there; the clerk knew how to prepare the message for whatever addressee was to receive it. The precedence of messages was routine, urgent, extremely urgent, or flash (vozdukh or V Z D).	
	submarines could communicate with aircraft only via shore stations.	 25X1
12.	The Navy operated control stations which monitored all transmissions by naval vessels to watch for violations of communications security. Ships were directed to operate within specific radio networks, and all these networks were monitored around the clock by the watch at the control stations. There were other control stations which intercepted enemy communications; these stations were sometimes subordinate to the Navy and sometimes subordinate to some other office.	
	for radio traffic occurred the Fleet Communications Department called it to the attention of the Chief of Communications, who reported it to the Chief of Staff. The offending vessel received a notice of the violation if it was minor, but more drastic measures were taken by higher offices if the violation was more serious.	25X
13.	Cipher matters were controlled by the 8th Department (otdel) of Fleet Headquarters (Shtab flota). Squadrons had flag cryptographers, and occasionally such specialists were assigned to brigades. At least, one cipher clerk was assigned to each ship. They were trained at Lomonosov (formerly Oranienbaum) in a naval school controlled by the 8th Directorate (upravleniye) of the Navy, not by the KGB. Radiomen were trained at Kronshtadt, Talino, etc., and radar operators were trained at Mamonovo, near Kaliningrad. The ship's captain was the only person besides the cipher clerk who had access to cipher material; an extra set of ciphers was kept in the captain's personal safe, under seal. Persons with access to ciphers received special clearance (dopusk) from the KGB Special Department (Osobyy otdel).	
	(doptask) from the Kab opecial bepar their (obobyy other),	25X
	Comment:	
	1. equated the Soviet project numbers with the arbitrary designations in parentheses	25X1
		20/(1
		25X